

Certificate of Analysis

Standard Reference Material 196

Ferrochromium (Low Carbon)

	Cr ^a	C	Mn	P	S	Si	V
ANALYST		Direct Combustion		Molybdenum- blue Photometric	Combustion- Iodate Titration	Perchloric Acid Dehydration	
1	70.84 ^b	0.032	0.282 ^c	0.020	0.003 ^d	0.371 ^e	0.12 ^c
2	70.74 ^f	----	----	----	----	.35 ^g	----
3	70.75	.033 ^h	----	----	----	{.363 .370 ⁱ }	----
4	70.95	----	----	----	----	.38	----
5	70.84 ^f	.039	----	----	----	.382	----
6	70.82 ^j	.039 ^h	----	----	----	.387	----
7	70.90 ^k	.034	----	.019 ^l	.003	.383	----
Average	70.83	0.035	----	0.020	0.003	0.373	----

^aIt is recommended that 0.5g minimum samples be taken for analysis.

^bNa₂O₂ fusion—AgNO₃—(NH₄)₂S₂O₈—coulometric titration.

^cActivation analysis.

^d1g sample plus copper accelerator burned in oxygen at 1450°C and sulfur dioxide absorbed in starch iodide solution. Iodine liberated from iodide by titration, during the combustion, with standard KIO₃ solution.

^eDouble dehydration with H₂SO₄.

^fNa₂O₂ fusion—AgNO₃—(NH₄)₂S₂O₈—FeSO₄—KMnO₄ titration.

^gH₂SO₄—HNO₃ dissolution.

^hThermal conductivity.

ⁱVolumetric titration method.

^jNa₂O₂ fusion—FeSO₄—KMnO₄ titration.

^kHClO₄ oxidation—FeSO₄—KMnO₄ titration.

^lAlkali-Molybdate method.

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